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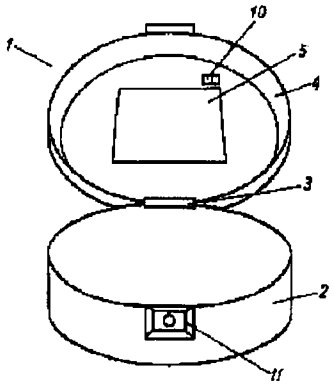
(54) PORTABLE CASE PROVIDED WITH LIGHT SOURCE

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a portable case provided with a light source by which a user is able to look the inside of a bag, a spot for writing on a memo pad, and the face reflected in a mirror during a makeup shown, in a place of a low illuminance, for example, in the outdoor at night, at the seat in the confference using OHP, and in a car driving at night.
SOLUTION: A case 1 is composed of a case main body 2 and an upper cover 4 mounted on the case main body 2 through a hinge 3 so as to open and clse freely. A light source unit is built into the inner surface of the upper cover 4, which is composed of a diffusion panel 5, a light source composed of a cold cathode fluorescent lamp disposed backward the diffusion panel 5, an reflection mirror covered with a reflection sheet made of an aluminum thin plate arranged backward the light source, a circuit substrate for turning on a light source, a power supply and switching means 10.



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* NOTICES *

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CLAIMS

[Claim(s)]
[Claim 1] The portable container which has the light source characterized by having had a body of a container, and the top-cover section attached in this body of a container free [closing motion], and equipping the inside of said top-cover section with the light source.
[Claim 2] The portable container which has the light source according to claim 1 characterized by having a mirror near said light source.
[Claim 3] Said mirror is a portable container which has the light source according to claim 2 characterized by establishing said light source caudad.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the portable container which has the light source which equipped the bag, the portable makeup container, etc. with the light source.
[0002]
[Description of the Prior Art] When using the hand conventionally written down on the interior of a bag, and a memo pad into a dark location, i.e., the place where an illuminance is low, for example, the outdoors of night, and the seat of a meeting and the vehicle of Nighttime using OHP, and a portable cosmetics container, an object is dark and could not appear easily. For this reason, in order to see those objects, it needed to move to the bright location where an illuminance is high, or the light source needed to be prepared independently.
[0003]
[Problem(s) to be Solved by the Invention] This invention aims at obtaining the portable container which has the light source which can see the interior of a bag, and the face at the time of the makeup reflected to the hand written down on a memo pad, and a mirror also in the place where an illuminance is low, for example, the outdoors of night, and the seat of a meeting and the vehicle at night using OHP.
[0004]
[Means for Solving the Problem] The portable container which has the light source of this invention has the configuration which was equipped with the body of a container, and the top-cover section attached in this body of a container free [closing motion], and equipped the inside of said top-cover section with the light source.
[0005] Thereby, an object can be illuminated also in the place where an illuminance is low.
[0006]
[Embodiment of the Invention] It explains referring to a drawing about the gestalt of operation of this invention.
[0007] The bag with which the portable container which has the light source which is the gestalt of operation of the 1st of this invention as shown in drawing 1 consists of a container 1, for example, resin, or thick leather consists of a body 2 of a container, and the top-cover section 4 attached in this body 2 of a container free [closing motion] through the hinge 3. The light source unit which consists of the light source 6 which becomes the inside of the top-cover section 4 from the cold-cathode fluorescent lamp formed behind the diffusion panel 5 of the opalescence made from an acrylic and this diffusion panel 5 as shown in drawing 2 , the reflecting mirror 7 which stuck the reflective sheet which consists of aluminum sheet metal formed behind this light source 6, the circuit board 8 for making the light source 6 as shown in drawing 3 turn on, a power source 9, and a switching means 10 is incorporated. In addition, it is built in the front face of the inside of the top-cover section 4 so that the diffusion panel 5 of this light source unit may be located.
[0008] By opening the ruble implement 11 of a bag and switching on the switching means 10 of the top-cover section 4, for example, a slide type, the portable container which has such the light source can make the light source 6 able to turn on, and can illuminate the interior of the

body 2 of a container of a bag.
[0009] In addition, the rechargeable lithium-ion battery which is used as an AC power and in which the count charge of plurality is possible is exchangeable as a power source 9 by removing the diffusion panel 5, the light source 6, and a reflecting mirror 7.
[0010] The interior of the containers 1, such as a bag, can be seen even in the place where an illuminance is low, without preparing the light source independently according to the gestalt of operation of the 1st of this invention, as mentioned above, since the light source 6 is established by the inside of the top-cover section 4 of the bag which is a container 1.
[0011] Next, the portable container which has the light source which is the gestalt of the 2nd operation is explained. The portable container which has the light source which is the gestalt of operation of the 2nd of this invention as shown in drawing 4 The diffusion panel 5 of the opalescence made from an acrylic as shown in the inside of the top-cover section 4 attached in the body 2 of a container free [closing motion] through the hinge 3 like the gestalt of the 1st operation at drawing 2 , The light source 6 which consists of a cold cathode fluorescent lamp formed behind this diffusion panel 5, The light source unit which consists of the reflecting mirror 7 which stuck the reflective sheet which consists of aluminum sheet metal formed behind this light source 6, the circuit board 8 for making the light source 6 as shown in drawing 3 turn on, a power source 9, and a switching means 10 is incorporated. In addition, it is built in the front face of the inside of the top-cover section 4 so that the diffusion panel 5 of this light source unit may be located.
[0012] Like the gestalt of implementation of the above 1st, by switching on the switching means 10 of the top-cover section 4, for example, a slide type, the light source 6 can be made to be able to turn on and the body 2 of a container can be illuminated.
[0013] In addition, the fastener 11 which has the metallic ornaments which can be opened and closed by six places can be formed, the body 2 of a container can be equipped with two or more sheets of forms 12 with six holes, and it can be used for it as a memo pad. 13 can be used as a storage, for example, can contain a card and writing materials. When the top-cover section 4 is closed, the space 14 which contains a form 12 is established in the inside of the top-cover section 4. Moreover, the rechargeable lithium-ion battery which is used as a power source 9, for example, an AC power, and in which the count charge of plurality is possible is exchangeable by forming output port 15.
[0014] Although the light is made to switch on with fixed brightness by the switching means 10, the modulated light means whose light is made to modulate manually may be used for this operation gestalt with the illuminance of a perimeter environment. Moreover, although the rechargeable lithium-ion battery which is used as an AC power and in which the count charge of plurality is possible was used as a power source 9, a DC power supply may be used through an AC/DC adaptor.
[0015] As mentioned above, according to the gestalt of operation of the 2nd of this invention, the hand written down on a memo pad etc. can be seen even in the place where an illuminance is low by forming the light source 6 in the inside of the top-cover section 4.
[0016] Next, the pocket container which has the light source which is the gestalt of the 3rd operation is explained. As shown in drawing 5 , the portable container which has the light source which is the gestalt of operation of the 3rd of this invention To the inside of the top-cover section 4 attached in the body 2 of a container free [closing motion] through the hinge 3, like the gestalt of each above-mentioned implementation The light source 6 which consists of a cold cathode fluorescent lamp formed behind the diffusion panel 5 of the opalescence made from an acrylic, and this diffusion panel 5 as shown in drawing 2 , The light source unit which consists of the reflecting mirror 7 which stuck the reflective sheet which consists of aluminum sheet metal formed behind this light source 6, the circuit board 8 for making the light source 6 as shown in drawing 3 turn on, a power source 9, and a switching means 10 is incorporated. Moreover, it has the mirror 16 near the light source 6.
[0017] In addition, it is built in the front face of the inside of the top-cover section 4 so that the diffusion panel 5 of this light source unit may be located.
[0018] Like each above-mentioned operation gestalt, by switching on the switching means 10 of

the top-cover section 4, for example, a slide type, the light source 6 can be made to turn on, and by such configuration, since the face of a person with the body 2 of a container can be irradiated, a mirror 16 can be used also in a dark location.
[0019] In addition, also in the dark location where an illuminance is low, it can make up by arranging foundations, for example, a lip stick etc., such as a makeup supply, on the body 2 of a container.
[0020] By forming output port 15, the rechargeable lithium-ion battery which is used as a power source 9, for example, an AC power, and in which the count charge of plurality is possible can be taken out and exchanged. Moreover, a makeup supply etc. can be removed and exchanged.
[0021] As a result of examining the conspicuousness of the mirror 16 at the time of light source lighting, what has arranged the light source 6 was the optimal above the mirror 16 among the upper part of a mirror 16, the lower part, the method of the right, and the left.
[0022] With each above-mentioned operation gestalt, although the manual switch was used as a switching means 10, when a container 1 is opened, it is automatic, and the light is switched on, and when it shuts, a switch which is switched off automatically may be used. Moreover, when a container is opened, in case a perimeter environment has an illuminance more than fixed, a switch with an illuminance sensor function which is not turned on may be used.
[0023] With this operation gestalt, although the makeup supply etc. was used for the body 2 of a container, a contact lens etc. may be contained.
[0024] Although the rechargeable lithium-ion battery which is a power source 9 was made more nearly exchangeable than output port 15 with this operation gestalt, where this rechargeable battery is built in a container 1, it may install in the battery charger of dedication and it may be charged.
[0025] As mentioned above, according to the gestalt of operation of the 3rd of this invention, it can make up even in the place where an illuminance is low by forming a mirror 16 near the light source 6 of the top-cover section 4.
[0026] With each above-mentioned operation gestalt, although the top-cover section 4 was equipped with the circuit board 8, the power source 9, and the circuit part of a switching means 10, you may build in the body 2 side of a container. In this case, the sense of stability of a container 1 is acquired. Moreover, the light sources, such as an electric bulb and LED, may be used as the light source 6.
[0027]
[Effect of the Invention] The portable container which has the light source of this invention as mentioned above can illuminate an object even in the place where an illuminance is low by having the configuration which equipped with the light source the inside of the top-cover section of the container attached free [closing motion]. Moreover, the face at the time of the makeup reflected to a mirror even in the place where an illuminance is low can be seen.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] The perspective view at the time of opening of a portable container which has the light source which is the gestalt of operation of the 1st of this invention
[Drawing 2] Similarly it is the decomposition perspective view of a light source part.
[Drawing 3] Drawing showing the outline of a circuit similarly
[Drawing 4] The perspective view at the time of opening of a portable container which has the light source which is the gestalt of operation of the 2nd of this invention
[Drawing 5] The perspective view at the time of opening of a portable container which has the light source which is the gestalt of operation of the 3rd of this invention
[Description of Notations]
1 Container
2 Body of Container
3 Hinge
4 Top-Cover Section
5 Diffusion Panel
6 Light Source
7 Reflecting Mirror
8 Circuit Board
9 Power Source
10 Switching Means
16 Mirror

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審査請求　未請求　請求項の数３　ＯＬ　（全５頁）

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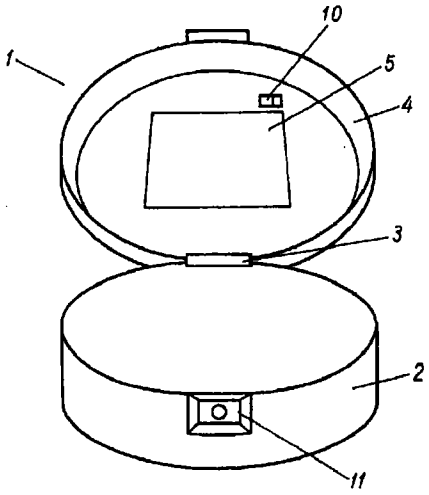
(54)【発明の名称】　光源を有する携帯用容器

(57)【要約】
【課題】　照度の低い所、例えば、夜の屋外、ＯＨＰを用いた会議の席や夜間の車の中でも、カバンの内部や、メモ帳に筆記する手元、また鏡に写る化粧時の顔を見ることができる光源を有する携帯用容器を得る。
【解決手段】　容器１は、容器本体２と、この容器本体２に蝶番３を介して開閉自在に取り付けられた上蓋部４とからなる。上蓋部４の内面には、拡散パネル５と、この拡散パネル５の後方に設けられた冷陰極蛍光灯からなる光源６と、この光源６の後方に設けられたアルミニウム薄板からなる反射シートを貼付した反射鏡７と、光源６を点灯させるための回路基板８と、電源９と、スイッチ手段１０とからなる光源ユニットが組み込まれている。



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【特許請求の範囲】
【請求項１】　容器本体と、この容器本体に開閉自在に取り付けられた上蓋部とを備え、前記上蓋部の内面に光源を備えたことを特徴とする光源を有する携帯用容器。
【請求項２】　前記光源の近傍に鏡を備えたことを特徴とする請求項１記載の光源を有する携帯用容器。
【請求項３】　前記鏡は前記光源の下方に設けられていることを特徴とする請求項２記載の光源を有する携帯用容器。
【発明の詳細な説明】
【０００１】
【発明の属する技術分野】本発明はカバンや携帯用化粧容器等に光源を備えた光源を有する携帯用容器に関するものである。
【０００２】
【従来の技術】従来、暗い場所、すなわち、照度の低い所、例えば、夜の屋外、ＯＨＰを用いた会議の席や夜間の車の中においては、カバンの内部、メモ帳に筆記する手元、また、携帯用化粧品容器を用いる際等、対象物が暗くて見えにくかった。このためそれらの対象物を見るために、照度の高い明るい場所に移動するか、別に光源を用意する必要があった。
【０００３】
【発明が解決しようとする課題】本発明は、照度の低い所、例えば、夜の屋外、ＯＨＰを用いた会議の席や夜間の車の中でも、カバンの内部や、メモ帳に筆記する手元、また鏡に写る化粧時の顔を見ることができる光源を有する携帯用容器を得ることを目的とする。
【０００４】
【課題を解決するための手段】本発明の光源を有する携帯用容器は、容器本体と、この容器本体に開閉自在に取り付けられた上蓋部とを備え、前記上蓋部の内面に光源を備えた構成を有する。
【０００５】これにより、照度の低い所においても、対象物を照らすことができる。
【０００６】
【発明の実施の形態】本発明の実施の形態について図面を参照しながら説明する。
【０００７】図１に示すように本発明の第１の実施の形態である光源を有する携帯用容器は、容器１、例えば、樹脂または厚手の革等からなるカバンは、容器本体２と、この容器本体２に蝶番３を介して開閉自在に取り付けられた上蓋部４とからなる。上蓋部４の内面には、図２に示すようにアクリル製乳白色の拡散パネル５と、この拡散パネル５の後方に設けられた冷陰極蛍光灯からなる光源６と、この光源６の後方に設けられたアルミニウム薄板からなる反射シートを貼付した反射鏡７と、図３に示すような光源６を点灯させるための回路基板８と、電源９と、スイッチ手段１０とからなる光源ユニットが組み込まれている。なお、上蓋部４の内面の前面にはこの光源ユニットの拡散パネル５が位置するように内蔵されている。
【０００８】このような光源を有する携帯用容器は、カバンの留具１１を開け、上蓋部４のスイッチ手段１０、例えばスライド式のスイッチを入れることにより、光源６を点灯させ、カバンの容器本体２の内部を照明することができる。
【０００９】なお、電源９として、例えばＡＣ電源として用いる複数回数充電可能なリチウムイオン二次電池は、拡散パネル５、光源６、反射鏡７を取り外すことによって、交換することができる。
【００１０】以上のように本発明の第１の実施の形態によれば、容器１であるカバンの上蓋部４の内面に光源６を設けられているので、別に光源を用意することなく、照度の低い所でもカバン等の容器１の内部を見ることができる。
【００１１】次に第２の実施の形態である光源を有する携帯用容器について説明する。図４に示すように本発明の第２の実施の形態である光源を有する携帯用容器は、第１の実施の形態と同様に、容器本体２に蝶番３を介して開閉自在に取り付けられた上蓋部４の内面には図２に示すような、アクリル製乳白色の拡散パネル５と、この拡散パネル５の後方に設けられた冷陰極蛍光灯からなる光源６と、この光源６の後方に設けられたアルミニウム薄板からなる反射シートを貼付した反射鏡７と、図３に示すような光源６を点灯させるための回路基板８と、電源９と、スイッチ手段１０とからなる光源ユニットが組み込まれている。なお、上蓋部４の内面の前面にはこの光源ユニットの拡散パネル５が位置するように内蔵されている。
【００１２】上記第１の実施の形態と同様に、上蓋部４のスイッチ手段１０、例えばスライド式のスイッチを入れることにより、光源６を点灯させ、容器本体２を照明することができる。
【００１３】なお、容器本体２には例えば、６ヶ所で開閉可能な金具を有する固定具１１を設け、６穴を持つ用紙１２を複数枚装着してメモ帳として使用することができるものである。１３は物入れとして使用し、例えば名刺や筆記用具を収納することができる。上蓋部４を閉じた時に、用紙１２を収納する空間１４を上蓋部４の内面に設けている。また、取出口１５を設けることにより、電源９、例えばＡＣ電源として用いる複数回数充電可能なリチウムイオン二次電池を交換できる。
【００１４】本実施形態は、スイッチ手段１０により、一定の明るさで点灯させるものであるが、周囲環境の照度により、手動で調光させる調光手段を用いても良い。また、電源９として、ＡＣ電源として用いる複数回数充電可能なリチウムイオン二次電池を使用したが、ＡＣアダプターを介してＤＣ電源を用いても良い。
【００１５】以上のように、本発明の第２の実施の形態

によれば、上蓋部４の内面に光源６を設けることにより、照度の低い所でも、メモ帳等に筆記する手元を見ることができる。

【００１６】次に第３の実施の形態である光源を有する携帯容器について説明する。図５に示すように、本発明の第３の実施の形態である光源を有する携帯用容器は、上記各実施の形態と同様に、容器本体２に蝶番３を介して開閉自在に取り付けられた上蓋部４の内面には、図２に示すようにアクリル製乳白色の拡散パネル５と、この拡散パネル５の後方に設けられた冷陰極蛍光灯からなる光源６と、この光源６の後方に設けられたアルミニウム薄板からなる反射シートを貼付した反射鏡７と、図３に示すような光源６を点灯させるための回路基板８と、電源９と、スイッチ手段１０とからなる光源ユニットが組み込まれている。また、光源６の近傍に鏡１６を備えている。

【００１７】なお、上蓋部４の内面の前面にはこの光源ユニットの拡散パネル５が位置するように内蔵されている。

【００１８】このような構成により、上記各実施形態と同様に、上蓋部４のスイッチ手段１０、例えばスライド式のスイッチを入れることにより、光源６を点灯させることができ、容器本体２を持つ者の顔を照射することができるので暗い場所においても鏡１６を用いることができる。

【００１９】なお、容器本体２に化粧用品等、例えばファンデーションや口紅等を配することにより、照度の低い暗い場所においても化粧を施すことができる。

【００２０】収出口１５を設けることにより、電源９、例えばＡＣ電源として用いる複数回数充電可能なリチウムイオン二次電池を取り出し、交換することができる。また、化粧用品等は取り外し交換することが可能である。

【００２１】光源点灯時における鏡１６の見やすさについて検討した結果、鏡１６の上方、下方、右方、左方のうち、鏡１６の上方に光源６を配置したものが最適であった。

【００２２】上記各実施形態では、スイッチ手段１０として手動のスイッチを用いたが、容器１を開いたときに自動で点灯、閉めたときには自動で消灯するようなスイッチを用いても良い。また、容器を開いたときに周囲環境が一定以上の照度を持つ際には、点灯しないような照度センサー機能をもつスイッチを用いても良い。

【００２３】本実施形態では、容器本体２に、化粧用品等を用いたが、コンタクトレンズ等を収納しても良い。

【００２４】本実施形態では、電源９であるリチウムイオン二次電池を、収出口１５より交換可能としたが、この二次電池を容器１に内蔵した状態で、専用の充電器に設置して充電しても良い。

【００２５】以上のように、本発明の第３の実施の形態によれば、上蓋部４の光源６の近傍に鏡１６を設けることにより、照度の低い所でも、化粧を施すことができる。

【００２６】上記各実施形態では、回路基板８、電源９、スイッチ手段１０の回路部分を、上蓋部４に備えたが、容器本体２側に内蔵しても良い。この場合、容器１の安定感が得られる。また、光源６として、電球やＬＥＤ等の光源を用いても良い。

【００２７】

【発明の効果】以上のように本発明の光源を有する携帯用容器は、開閉自在に取り付けられた容器の上蓋部の内面に光源を備えた構成を有することによって、照度の低い所でも、対象物を照らすことができる。また、照度の低い所でも鏡に写る化粧時の顔を見ることができる。

【図面の簡単な説明】

【図１】本発明の第１の実施の形態である光源を有する携帯用容器の開蓋時の斜視図

【図２】同じく光源部分の分解斜視図

【図３】同じく回路の概略を示す図

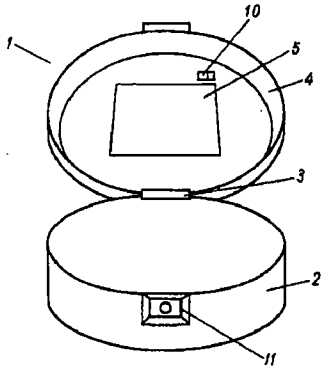
【図４】本発明の第２の実施の形態である光源を有する携帯用容器の開蓋時の斜視図

【図５】本発明の第３の実施の形態である光源を有する携帯用容器の開蓋時の斜視図

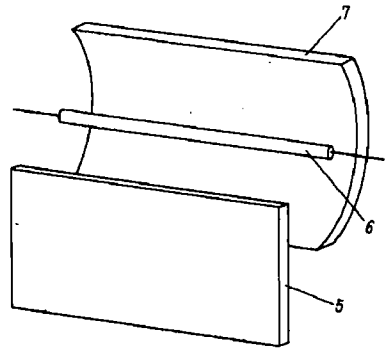
【符号の説明】

１　容器
２　容器本体
３　蝶番
４　上蓋部
５　拡散パネル
６　光源
７　反射鏡
８　回路基板
９　電源
１０　スイッチ手段
１６　鏡

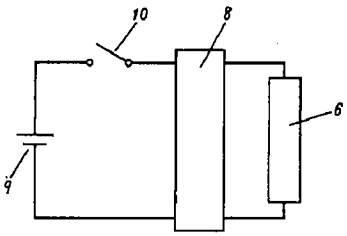
【図１】



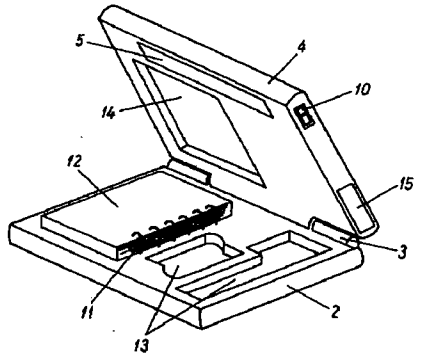
【図２】



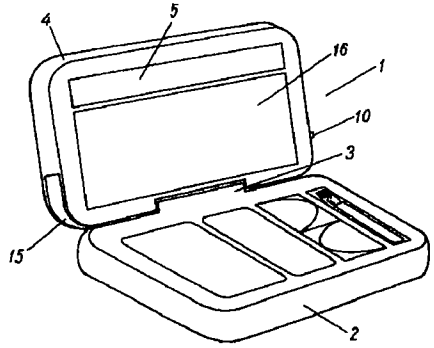
【図３】



【図４】



【図５】



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